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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/522,429	01/25/2005	Valentin Lefevre	NY-GRYN 213-US 761 (10500363)		
	7590 09/21/200° & JAWORSKI, LLP	1	EXAMINER		
666 FIFTH AVE			AMINI, JAVID A		
NEW YORK, NY 10103-3198			ART UNIT	PAPER NUMBER	
			2628		
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			MAIL DATE	DELIVERY MODE	
			09/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be variable under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (55 U.S.C. § 133). Any reply received by the Other later than three months after the mailing date of this communication, even if timely filed, may reduce any extended period for reply will, by statute, cause the application to become ABANDONED (55 U.S.C. § 133). Any reply received by the Other later than three months after the mailing date of this communication, even if timely filed, may reduce any extended period for reply will, by statute, cause the application to become ABANDONED (55 U.S.C. § 133). Any reply received by the Difference will be applied to the communication, even if timely filed, may reduce any extended period for reply will, by statute, cause the application to become ABANDONED (55 U.S.C. § 133). Any reply received by the Examiner and the communication of the provision of the maximal period to the communication of the communication of the communication of the maximal period to the communication of the provision of the maximal period to the communication of the maximal period to the communication of the maximal period to the provision of the maximal period to the maximal period to the provision of the			Application No.	Applicant(s)					
Javid A. Amini  2628  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of them may be available under the provisions of 37 CPT 1136(). In no event, however, may a reply be limited in the result of the reply selected above, the maining date of this communication.  If NO period for reply is specified above, the maining date of this communication.  If NO period for reply is specified above, the maining date of this communication.  If NO period for reply is specified above, the maining date of this communication.  If NO period for reply is specified above, the maining date of this communication.  Falure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (33 U.S.C. § 133).  Any reply received by the Office later than three maining date of this communication, even if simely flied, may reduce any statute patient term adjustment. See 37 CPT 1.794(s).  Status  1) A Responsive to communication(s) filled on 25 January 2005.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1.52 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1.52 is/are rejected.  7) Claim(s) is/are allowed.  6) Claim(s) is/are objected to.  8) Claim(s) is/are objected to.  8) Claim(s) is/are objected to by the Examiner.  10) The drawing(s) filed on is/are. a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 C			10/522,429	LEFEVRE, VALENTIN					
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<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>									
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.	* 5								
See the attached detailed Office action for a list of the certified copies not received.									
attachment(s)	Attachment	t(s)							
Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)									
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Paper No(s)/Mail Date <u>4/21/2005</u> . 6) Other:									

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 27, 28, 30, and 40 are rejected under 35 U.S.C. 102(b) as being anticipated by Daver U.S. 5,513,854.

Claim 27.

Daver teaches a method for enabling real-time mixing of synthetic images and video images by a user, comprising the steps of (i.e. noted in col. 1 lines 10-14): Daver teaches producing a flow of synthetic images using a data processing unit comprising a motherboard (i.e. noted in col. 3 lines 41-44, a data processing unit comprising a motherboard is inherent); Daver teaches a graphic board for rendering and displaying said scene (i.e. noted in col. 6 lines 14-19), and comprising a 2D/3D processing acceleration processor (i.e. noted in col. 6 lines 59-64), and a memory zone comprising a work buffer and a texture memory (i.e. noted in col. 3 line 43-44 the bird's-eye view, and the memories are inherent); Daver teaches acquisition means for acquiring, in real time, video images in a video buffer; and tracing a scene by creating visual interactions between said flow of synthetic images and at least a flow of video images (i.e. noted in col. 3 lines 41-44); Daver teaches performing a specific rendition of said scene by copying, upon each rendering of said scene, said video buffer into said memory zone

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of said graphic board (i.e. noted in col. 3 lines 48-51); Daver teaches tracing said synthetic images into said memory zone of the graphic board, thereby improving the quality of said scene and reducing the processing time without employing expensive proprietary data processing units (i.e. noted in col. 9 lines 2-5, also see, in col. 9 lines 65-67).

Claim 28.

Daver teaches the method of claim 27, wherein the step of performing comprises the steps of: copying, upon each rendering of said scene, said video buffer into the said work buffer; and tracing said synthetic images into said work buffer (it is inherent because of the bird's eye view).

Claim 30.

Daver teaches the method according of claim 27, further comprising the steps of: initializing prior to the specific rendition by providing a dedicated texture in said texture memory of said graphic board, wherein said dedicated texture has the size of said video buffer and is dedicated to copying said video buffer into said texture memory; and copying said video buffer into said dedicated texture and tracing said scene completely, using said dedicated texture to texture some of polygons of the said scene (the step of this claim is inherent because of the bird's eye view of Daver).

Claim 40.

Claim 40 is rejected with similar reason as set forth in claim 27, above.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim29, 31-34, 38-39, 41-47, and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daver, and in view of Temkin et al. U.S. 7,098,888 B2, hereinafter Temkin.

Claim 29.

Daver does not explicitly specify the method of claim 28, wherein said video buffer comprises interlaced video lines; and further comprising the steps of: copying even video lines of said video buffer, upon a first rendition of said scene, into said work buffer; and copying odd video lines of said video buffer, upon the following rendition of said scene, into said work buffer.

Examiner's interpretation regarding the "interlaced video lines" in the claim, is as follows: interlace is to illuminate a screen by displaying all odd lines in the frame first and then all even lines. Interlacing uses half frames per second, that means a full frame takes two second.

However, Temkin teaches the method of claim 28, wherein said video buffer comprises interlaced video lines; and further comprising the steps of: copying even video lines of said video buffer, upon a first rendition of said scene, into said work buffer; and copying odd video

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lines of said video buffer, upon the following rendition of said scene, into said work buffer (i.e. noted in col. 2 lines 29-51).

Thus, it would have been obvious to a person skill in the art at the time of the invention to combine Temkin into Daver, in order to produce cost-effective, real-time, interactive, transform the virtual environment from a flat, formless 2D experience to a more realistic and solid 3D experience, with minimal hardware.

Claim 31.

Claim 31 is rejected with similar reason as set forth in claim 29, above.

Claim 32.

Daver teaches the method of claim 27, wherein said acquisition means comprises a driver having a new video buffer for each new video image; and wherein the step of performing renders said scene in synch with presentation of each new video buffer (i.e. noted in col. 4 lines 4-8).

Claim 33.

Daver teaches the method of claim 27, wherein said acquisition means comprises a driver having a new video buffer for each new video image; and further comprising the steps of: filling a buffer memory with each new video buffer, employing a video capture performance unit; copying one of the new video buffers contained in said buffer memory into said texture memory of said graphic board; and asynchronously performing the rendition of the said scene in relation to presentation of each new video buffer (i.e. noted in col. 4 lines 4-8).

Claim 34.

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Temkin teaches the method of claim 27, further comprising the step of applying an antialiasing function in the tracing of said scene (i.e. noted in col. 4 lines 16-20).

Claims 38, 43-44, and 51.

Claims 38, 43-44, and 51 are rejected with similar reason as set forth in claim 29, above.

Claim 39.

Claim 39 is rejected with similar reason as set forth in claim 29, above.

Claims 41, 42.

Claims 41-42 are rejected with similar reason as set forth in claim 29, above.

Claims 45-46.

Claims 45-46 are rejected with similar reason as set forth in claim 33, above. Examiner's interpretation regarding the limitation used in the claim 45 as "synchronously", in claim 33 used as "asynchronously", and since the outcomes of the claims 45 and 33 are similar then the limitations are considered as a design choice.

Claim 47.

Claim 47 is rejected with similar reason as set forth in claim 34, above.

Claims 35-36, and 48-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daver, and in view of Gianpaolo U. Carraro, John T. Edmark, J. Robert Ensor; Techniques for handling video in virtual environments; Proceedings of the 25th annual conference on Computer graphics and interactive techniques SIGGRAPH '98, hereinafter Carraro. Claim 35.

Daver does not teaches the method of claim 27, further comprising the step of applying a transparency function in the tracing of said scene.

However, Carraro teaches the method of claim 27, further comprising the step of applying a transparency function in the tracing of said scene (i.e. noted in fig. 1).

Thus, it would have been obvious to a person skill in the art at the time of the invention to combine Carraro into Daver, in order to provide two-dimensional images and video clips can successfully simulate three dimensional spaces.

Claim 36.

Carraro teaches the method of claim 27, further comprising the step of applying nonlinear distortions to said video buffer when texturing polygons of said scene using a dedicated texture, thereby correcting optical distortions of the video image (on last page at left column first paragraph). See the rejection 35 U.S.C. 112.

Claim 48.

Claim 48 is rejected with similar reason as set forth in claim 35, above.

Claim 49.

Claim 49 is rejected with similar reason as set forth in claim 36, above.

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Claims 37, 50, and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Daver, and in view of Rybczynski US 6,348,953 B1.

Claim 37.

Daver does not teaches the method of claim 27, further comprising the step of applying

pixel shader functions to said video buffer, thereby permitting the processing of chroma key

type.

However, Rybczynski teaches the method of claim 27, further comprising the step of

applying pixel shader functions to said video buffer, thereby permitting the processing of

chroma key type (i.e. noted in fig. 2).

Thus, it would have been obvious to a person skill in the art at the time of the invention to

combine Carraro into Daver, in order to conserve the optical resolution of the foreground

image.

Claim 50 is rejected with similar reason as set forth in claim 37, above.

Claim 52 is rejected with similar reason as set forth in claim 37, above. It is obvious the data

processor is slowing the display of the video images with respect to the display of the synthetic

images. Examiner's note: is the slowing process part of the claimed invention?, if it is then what

is the significant of having a slow system?

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## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 36 and 49 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. "non-linear distortion" is essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). The step in the claimed invention recited, "... applying nonlinear distortion to said video buffer ... correcting optical distortions of the video image", but the relationship between the output and its input is missing. E.g., the behavior of the system and its method should be described by a set of nonlinear equations which is not enabled by the disclosure.

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## Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A. Amini whose telephone number is 571-272-7654. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on 571-272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Javid A Amini Examiner Art Unit 2628

J.A.

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